10/16/2007

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Application Number	09/914,928	
Filing Date	09/06/2001	7
First Named Inventor	Loick Verger	
Art Unit	2884	
Examiner Name	Sung, Christine	
Attorney Docket Number	034299-346	

ENCLOSURES (check all that apply)					
Fee Transmittal Form	☐ Drawing(s)		After Allowance Communication to TC		
Fee Attached	Licensing-related Papers		Appeal Communication to Board of Appeals and Interferences		
Amendment / Reply	Petition		Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)		
After Final	Petition to Convert to a Provisional Application	ļ	Proprietary Information		
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FEE TRANSMITTAL	Application Number	09/914,928	
FEE TRANSMITTAL	Filing Date	09/06/2001	
for FY 2008	First Named Inventor	Loick Verger	
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name	Sung, Christine	
	Art Unit	2884	
TOTAL AMOUNT OF PAYMENT (\$) 510.00	Attorney Docket No.	034299-346	

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	Plant	210	105	310	155	160	80		
	Reissue	310	155	510	255	620	310		
	Provisional	210	105	0	0	0	0		
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Name (Print/Type)	Khaled Shami		Date	10/16/2007

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Atty. Docket No.: 034299-346

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Loick Verger et al.

CONFIRMATION NO.:

5963

SERIAL NO.:

09/914,928

FILING DATE:

09/06/2001

TITLE:

X-RAY IMAGING DEVICE AND METHOD FOR MAKING SAME

EXAMINER:

Sung, Christine

ART UNIT:

2884

CERTIFICATE OF MAILING

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Julie Arango

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APPEAL BRIEF

Dear Sir:

This paper is in support of a Notice to Appeal filed August 20, 2007, of the Office Action dated April 17, 2007, to the Board of Patent Appeals and Interferences.

10/19/2007 EAYALEW1 00000091 501698 09914928

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Serial No. 09/914,928 Atty. Docket No.: 034299-346

REAL PARTY IN INTEREST

Commissariat a L'Energie Atomique.

Atty. Docket No.: 034299-346

RELATED APPEALS AND INTERFERENCES

None.

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STATUS OF CLAIMS

Claim 11 has been canceled.

Claims 1-10 and 12-20 have been finally rejected and are on appeal.

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STATUS OF AMENDMENTS

An amendment after final was filed on August 16, 2007, and has been entered.

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SUMMARY OF CLAIMED SUBJECT MATTER

The invention relates to X-ray imaging devices and the fabrication of same. Claim 1 is directed to a X-radiation imagery device comprising at least one detection matrix. The detection matrix includes an electric charges reading panel (10; FIG. 1; p. 7, l. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, l. 27; p. 12, l. 21; l. 27), the electric charges reading panel including a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, and a detection layer made of a continuous layer of semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) deposited in vapour phase on the electric charges reading panel (p. 8, ll. 1-5), the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix.

Claim 2 is directed to a process for making an X-radiation imagery device comprising at least one detection matrix. The detection matrix includes (a) an electric charges reading panel (10; FIG. 1; p. 7, l. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, l. 27; p. 12, l. 21; l. 27), the electric charges reading panel including a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, and (b) a detection layer made of a semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) converting incident X photons into electric charges. The process includes forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel, and vapour-phase depositing (p. 8, ll. 1-5) the semiconducting material on the electric charges reading panel so as to form the detection layer made of a continuous layer of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon.

Claim 14 is directed to X-radiation imagery device that includes at least one detection matrix. The detection matrix includes an electric charges reading panel (10; FIG. 1; p. 7, 1. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, 1. 27; p. 12, 1. 21; l. 27), the electric charges reading panel including a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, each electronic device including an amplifier, and a detection

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layer made of a continuous layer of a semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) deposited in vapour phase on the electric charges reading panel (p. 8, ll. 1-5), the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix.

Claim 16 is directed to a method for making an X-radiation imagery device comprising at least one detection matrix. The detection matrix includes an electric charges reading panel (10; FIG. 1; p. 7, l. 21) having an area equal to or larger than about 10 cm x 10 cm (p.5, l. 27; p. 12, l. 21; l. 27), the electric charges reading panel including (a) a monocrystalline silicon substrate (10) integrating a plurality of electronic devices, and (b) a detection layer made of a semiconducting material (#13, FIG. 1, p. 8, ll. 3-4; #24, FIG. 2C, p. 13, ll. 1-2) converting incident X photons into electric charges. The process includes forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel, each of the electronic devices including an amplifier, and vapour-phase depositing (p. 8, ll. 1-5) the semiconducting material on the electric charges reading panel so as to form a continuous detection layer made of thesemiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon.

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GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Whether claims 1-10 and 12-20 are anticipated under 35 U.S.C. 102(e) by U.S. Pat. No. 5,892,227 (Schieber; hereinafter, "Schieber").

Whether claims 3, 12, 18 and 20 are unpatentable under 35 U.S.C. 103(a) over Schieber.

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ARGUMENT

Rejection of Claims 1-10 and 12-20 Under 35 U.S.C. 102(e) Based on Scheiber

Claim 1

Claim 1 recites, *inter alia*, an electric charges reading panel that includes (1) a monocrystalline silicon substrate integrating a plurality of electronic devices, and (2) a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel. These features are not disclosed in Schieber. As seen from FIG. 4 of Scheiber, the HgI₂ layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the "gamma-ray sensitive front-end," the HgI₂ array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multichannel hybrid preamps or the other components of the "system console," are disposed.

Claim 2

Claim 2 recites, *inter alia*, a process for making an X-radiation imagery device comprising (1) forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel, and (2) vapour-phase depositing the semiconducting material on the electric charges reading panel so as to form the detection layer made of a continuous layer of the semiconducting material, thereby forming a matrix of detection pixels. These features are not disclosed in Scheiber. As explained above, FIG. 4 of Scheiber shows that the HgI₂ layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that

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includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the "gamma-ray sensitive front-end," the HgI₂ array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multi-channel hybrid preamps, or the other components of the "system console," are disposed.

Claim 14

Claim 14 recites, inter alia, X-radiation imagery device comprising at least one detection matrix that comprises (1) an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a plurality of electronic devices, each electronic device including an amplifier, and (2) a detection layer made of a continuous layer of a semiconducting material deposited in vapour phase on the electric charges reading panel, the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix. These features are not disclosed in Scheiber. As explained above, FIG. 4 of Scheiber shows that the HgI₂ layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the "gamma-ray sensitive front-end," the HgI₂ array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multi-channel hybrid preamps, or the other components and amplifiers of the "system console," are disposed.

Claim 16

Claim 16 recites, *inter alia*, a method for making an X-radiation imagery device comprising (1) forming electronic devices on a monocrystalline silicon substrate to produce an

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electric charges reading panel, each of the electronic devices including an amplifier, and (2) vapour-phase depositing a semiconducting material on the electric charges reading panel so as to form a continuous detection layer made of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon. These features are not disclosed in Scheiber. As explained above, FIG. 4 of Scheiber shows that the HgI₂ layer (allegedly corresponding to the detection layer) has row electrodes formed below it and column electrodes formed above it. This arrangement is described in detail in column 6, lines 16-55 of Scheiber. There is no disclosure in Scheiber of a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel that includes a monocrystalline silicon substrate integrating a plurality of electronic devices. FIG. 7 of Scheiber most clearly bears this out, showing schematically that in the "gamma-ray sensitive front-end," the HgI₂ array (allegedly the detection layer made of a continuous layer of semiconducting material) is separate and distinct from the rest of the circuitry in which the plurality of electronic devices, such as the rows and columns of the multi-channel hybrid preamps, or the other components and amplifiers of the "system console," are disposed.

Rejection of Claims 3, 12, 18 and 20 Under 35 U.S.C. 103(b)

Claims 3, 12, 18 and 20

Claims 3, 12, 18 and 20 are dependent claims which necessarily include the limitations of the base claims discussed above. The above-discussed missing features are not obvious, and a prima facie case of obviousness with regard to these features has not been established.

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CLAIMS APPENDIX

1. X-radiation imagery device comprising at least one detection matrix, said detection matrix comprising:

an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a plurality of electronic devices; and a detection layer made of a continuous layer of semiconducting material deposited in vapour phase on the electric charges reading panel, the detection layer converting incident X photons into electric charges, each electronic device and a portion of the detection layer formed thereon forming a respective pixel of the detection matrix.

2. Process for making an X-radiation imagery device comprising at least one detection matrix, said detection matrix comprising (a) an electric charges reading panel having an area equal to or larger than about 10 cm x 10 cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a plurality of electronic devices, and (b) a detection layer made of a semiconducting material converting incident X photons into electric charges, said process comprising:

forming the electronic devices on the monocrystalline silicon substrate to produce the electric charges reading panel; and

vapour-phase depositing the semiconducting material on the electric charges reading panel so as to form the detection layer made of a continuous layer of the semiconducting material, thereby forming a matrix of detection pixels, each detection pixel including a corresponding electronic device and a portion of the detection layer formed thereon.

- 3. Process according to claim 2, in which the evaporation properties of this semiconductor are such that the deposition can be done at a temperature lower than a temperature that damages the electronic devices.
- 4. Process according to claim 2, in which the semiconducting material used to make the matrix of detection pixels is CdTe, HgI₂ or PbI₂.

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5. Process according to claim 2, in which electronic devices made using a process technology having a feature device size of $1.25 \mu m$ are used.

- 6. Process according to claim 2, in which electronic devices made using a process technology having a feature device size of 0.1 µm are used.
- 7. X-radiation imagery device according to claim 1, wherein the detection layer is deposited directly on the electronic devices of the electric charges reading panel in each pixel.
- 8. X-radiation imagery device according to claim 1, wherein the semiconducting material of the detection layer is crystalline silicon.
- 9. X-radiation imagery device according to claim 1, wherein each of said electronic devices comprising at least one of:

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an amplifier;
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a preamplifier;

a filter; or

a processing circuit.

10. X-radiation imagery device according to claim 9, wherein said processing circuit includes at lease one of:

a reading circuit;

an integration circuit; or

a counting circuit.

- 12. The method in accordance with claim 2, wherein said vapour-phase depositing comprises: controlling a temperature of the deposition so as not to damage the electronic devices of the electric charges reading panel made of monocrystalline silicon.
- 13. The method in accordance with claim 2, further comprising: assembling more than one detection matrices to form a large area digital detector.

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14. X-radiation imagery device comprising at least one detection matrix, said detection matrix

comprising:

an electric charges reading panel having an area equal to or larger than about 10 cm x 10

cm, said electric charges reading panel including a monocrystalline silicon substrate integrating a

plurality of electronic devices, each electronic device including an amplifier; and

a detection layer made of a continuous layer of a semiconducting material deposited in

vapour phase on the electric charges reading panel, the detection layer converting incident X

photons into electric charges, each electronic device and a portion of the detection layer formed

thereon forming a respective pixel of the detection matrix.

15. X-radiation imagery device according to claim 14, wherein each of said electronic devices

further comprising at least one of:

a preamplifier;

a filter; or

a processing circuit.

16. Method for making an X-radiation imagery device comprising at least one detection matrix,

said detection matrix comprising an electric charges reading panel having an area equal to or

larger than about 10 cm x 10 cm, said electric charged reading panel including (a) a

monocrystalline silicon substrate integrating a plurality of electronic devices, and (b) a detection

layer made of a semiconducting material converting incident X photons into electric charges,

said method comprising:

forming the electronic devices on the monocrystalline silicon substrate to produce the

electric charges reading panel, each of the electronic devices including an amplifier; and

vapour-phase depositing the semiconducting material on the electric charges reading panel

so as to form a continuous detection layer made of thesemiconducting material, thereby forming

a matrix of detection pixels, each detection pixel including a corresponding electronic device and

a portion of the detection layer formed thereon.

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17. X-radiation imagery device according to claim 1, wherein said device has a detection area of about one or more dm².

- 18. Process according to claim 2, wherein said monocrystalline silicon substrate is obtained from a monocrystalline silicon wafer having a diameter of about 10 cm to about 30 cm.
- 19. X-radiation imagery device according to claim 14, wherein said device has a detection area of about a few dm².
- 20. Process according to claim 16, wherein said monocrystalline silicon substrate is obtained from a monocrystalline silicon wafer having a diameter of about 10 cm to about 30 cm.

PATENT Serial No. 09/914,928 Atty. Docket No.: 034299-346

EVIDENCE APPENDIX

None.

PATENT Serial No. 09/914,928 Atty. Docket No.: 034299-346

RELATED PROCEEDINGS APPENDIX

None.

Atty. Docket No.: 034299-346

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Respectfully submitted,

THELEN REID BROWN RAYSMAN & STEINER LLP

Dated: 10/16/2007

Khaled Shami Reg. No. 38,745

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